

### **REMARKS**

Please reconsider the application in view of the foregoing amendments and the following remarks.

### **Status of Claims**

Claims 1, 3, 4 and 6-8 are pending in the present application. Claim 1 is herein amended. Support for this amendment may be found on page 19, paragraph [0050] and in Fig. 2 of the present specification. No new matter has been entered.

### **Examiner Interview**

Applicant appreciates the courtesy extended by the examiner in the telephonic interview on July 21, 2009. Claim 1 was discussed. More specifically, it was discussed that, in the claimed invention, the identical output of the transmitter circuit part 22 is fed to first antenna and the second antenna. That is, not only the information such as a data packet is identical, but also the information is transmitted on same transmission signal such as a carrier frequency simultaneously. That is, the identical information is transmitted at the same time at the same frequency. Whereas, Arnold merely teaches time diversity technique, i.e., Arnold transmits same information (data packet) at the different times, but on same frequencies such as A or B, and frequency diversity technique, i.e., Arnold transmits same information (data packet) at the same time, but on different frequencies such as A and B.

**Claim Rejections - 35 U.S.C. §112**

The Examiner has rejected claim 1 under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. Applicants respectfully submit that the Examiner may be broadly construing the term “an identical signal” to mean that the signal is exactly the same in every respect which may be hard to achieve in the Radio Frequency environment and this would be understood by a person of ordinary skill in the art. However, Applicant has amended claim 1 in accordance with Fig. 1 and at least the description provided in paragraph [0050] of the present specification to further clarify and to overcome this rejection.

**As to the Merits**

As to the merits of this case, the Examiner sets forth the following rejections:

Claims 1, 3, 4 were rejected under 35 U.S.C. 102(b) as anticipated by **Arnold** (US Patent Application 2003/0224729 Arnold).

Claims 6-8 were rejected under 35 U.S.C. 103(a) as being unpatentable over **Arnold** (US Patent Application 2003/0224729) in view of **Stevens** (US Patent Application 2004/0014457).

Each of these rejections is respectfully traversed.

**Claim Rejections - 35 U.S.C. §102**

**Independent claim 1**

In order to anticipate an invention under 35 U.S.C. §102, the prior art reference must not only disclose all elements of the claim within four corners of the document, but must also disclose those elements arranged as in the claim.

Claim 1, as amended, is drawn to ... *wherein, in a connecting state where said first transmitter and said second transmitter are connected, said first antenna and said second antenna simultaneously transmit identical information on a same transmission signal, said same transmission signal being a carrier signal.*

For example, as noted in paragraph [0050] of the present specification, “[t]he transmitter circuit part 22 obtains transmission data from the first transmitter 10, forms a transmission signal, and outputs the transmission signal to the second antenna 21 provided in the second transmitter 20. At the same time, the transmitter circuit part 22 outputs the transmission signal to the first antenna 11 provided in the first transmitter 10, and **the same transmission signal is transmitted from the second antenna 21 and the first antenna 11 simultaneously.**” (emphasis added).

On pages 3 and 4 of the Final Office Action, it is alleged that Arnold discloses “wherein, in a connecting state where said first transmitter and said second transmitter are connected” (see paragraph 43 and Fig. 5, Arnold discusses as controller 404 includes one output 412

corresponding to a first transmit channel and another output 414 corresponding to a second transmit channel) said first antenna and said second antenna simultaneously transmit said identical information as an identical signal” (see paragraphs 8, 36, 40, 41, 43, 58 and Fig. 3-5, transmitter arrangement 308 is configured to transmit identical data packets at two different RF carrier frequencies. Antenna structure 310, which can be configured to enhance the quality of the RF transmission, propagates the data packets over a wireless link 312).”

Applicants respectfully submit that the Examiner is misunderstood the teachings of Arnold. Specifically, Arnold, in Figs. 10 and 11, teaches a wireless data transmitter unit that transmits identical copies of the data packet using (1) frequency diversity techniques and (2) time diversity techniques respectively.

In Fig. 11, Arnold teaches a **frequency diversity technique** wherein a transmitter unit that simultaneously transmits a first **identical copy** of the data packet using a **first carrier frequency (FREQ A)**, and a **second identical** copy of the data packet using a **second carrier frequency (FREQ B)**. **In other words**, Arnold transmits same information (data packet) at the same time, but on different frequencies such as A and B (Fig. 11).

In Fig. 10, Arnold teaches a **time diversity technique** wherein the wireless data transmitter unit transmits a **first identical copy of the data packet 700** using a **first carrier frequency (labeled frequency A)**. After the wireless data transmitter unit transmits data packet

700, **it transmits a second identical copy of the data packet 702 using the first carrier frequency.** After the wireless data transmitter unit transmits data packet 702, **it transmits a third identical copy of the data packet 704 using a second carrier frequency (labeled frequency B).** After the wireless data transmitter unit transmits data packet 704, **it transmits data packet 706 using the second carrier frequency. In other words,** Arnold transmits same information (data packet) **at the different times**, but on **same frequencies** such as A or B (Fig. 10).

**In contrast**, as illustrated in Fig. 2 for example, the identical output of the transmitter circuit part 22 is fed to first antenna and the second antenna. Therefore, the claimed invention is **completely different** from Arnold because not only the information such as a data packet is identical, but also the information is transmitted on same transmission signal such as a carrier frequency simultaneously. That is, **the identical information is transmitted at the same time at the same frequency.**

Therefore, it is respectfully submitted that Arnold also does not disclose *wherein, in a connecting state where said first transmitter and said second transmitter are connected, said first antenna and said second antenna simultaneously transmit identical information on a same transmission signal ...* in claim 1.

As noted above, in order to anticipate an invention under 35 U.S.C. §102, the prior art reference must not only disclose all elements of the claim within four corners of the document, but must also disclose those elements arranged as in the claim.

Since Arnold does not disclose *wherein, in a connecting state where said first transmitter and said second transmitter are connected, said first antenna and said second antenna simultaneously transmit identical information on a same transmission signal ...* in claim 1, Applicants submit that the rejection of claims 1, 3, 4 is improper and respectfully request that it be withdrawn.

#### **Claim Rejections - 35 U.S.C. §103**

Dependent claims 6-8 are patentable at least by virtue of their dependency on patentable claim 1 since they incorporate the distinguishing feature of patentable claim 1.

#### **Conclusion**

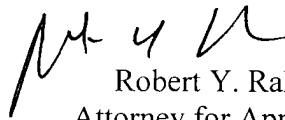
The Claims have been shown to be allowable over the prior art. Applicants believe that this paper is responsive to each and every ground of rejection cited in the Office Action dated April 15, 2009, and respectfully request favorable action in this application. The Examiner is invited to telephone the undersigned, applicants' attorney of record, to facilitate advancement of the present application.

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Art Unit: 2617

Amendment under 37 CFR §1.116  
Attorney Docket No.: 062953

If this paper is not timely filed, Applicants respectfully petition for an appropriate extension of time. The fees for such an extension or any other fees that may be due with respect to this paper may be charged to Deposit Account No. 50-2866.

Respectfully submitted,  
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